```
mohamed-alaa@mohamed-alaa-VMware-Virtual-Platform:~$ gcc process_creation.c -o process_creation
mohamed-alaa@mohamed-alaa-VMware-Virtual-Platform:~$ ./process_creation
this is the parent process. PID: 8379
this is the child process. PID: 8380
mohamed-alaa@mohamed-alaa-VMware-Virtual-Platform:~$
```

```
mohamed-alaa@mohamed-alaa-VMware-Virtual-Platform:~$ nano file1.c
mohamed-alaa@mohamed-alaa-VMware-Virtual-Platform:~$ nano file2.c
mohamed-alaa@mohamed-alaa-VMware-Virtual-Platform:~$ gcc file1.c file2.c -o output_program
mohamed-alaa@mohamed-alaa-VMware-Virtual-Platform:~$ ./output_program
hello mohamed from file 1 mohamed-alaa@mohamed-alaa-VMware-Virtual-Platform:~$
```

GNU nano 7.2   file1.c

```c
#include <stdio.h>
void hello() {
    printf("hello mohamed from file 1 ");
}
```

[Read 5 lines]

^G Help   ^O Write Out ^W Where Is ^K Cut   ^T Execute   ^C Location   M-U Undo
^X Exit   ^R Read File ^\ Replace   ^U Paste   ^J Justify   ^/ Go To Line M-E Redo

```
void hello();
int main() {
    hello();
    return 0;
}
```

[Read 5 lines]

```
mohamed-alaa@mohamed-alaa-VMware-Virtual-Platform:~$ nano file1.c
mohamed-alaa@mohamed-alaa-VMware-Virtual-Platform:~$ nano file2.c
mohamed-alaa@mohamed-alaa-VMware-Virtual-Platform:~$ gcc file1.c file2.c -o output_program
mohamed-alaa@mohamed-alaa-VMware-Virtual-Platform:~$ ./output_program
hello mohamed from file 1 mohamed-alaa@mohamed-alaa-VMware-Virtual-Platform:~$ nano file1.c
mohamed-alaa@mohamed-alaa-VMware-Virtual-Platform:~$ nano file2.c
mohamed-alaa@mohamed-alaa-VMware-Virtual-Platform:~$ nano simple_program.c
mohamed-alaa@mohamed-alaa-VMware-Virtual-Platform:~$ gcc simple_program.c -o simple_program
mohamed-alaa@mohamed-alaa-VMware-Virtual-Platform:~$ ./simple_program
thiss is a simple program mohamed-alaa@mohamed-alaa-VMware-Virtual-Platform:~$
```

```c
#include <stdio.h>
int main() {
    printf("thiss is a simple program ");
    return 0;
}
```

[Read 5 lines]

mohamed-alaa@mohamed-alaa-VMware-Virtual-Platform: ~

```
mohamed-alaa@mohamed-alaa-VMware-Virtual-Platform:~$ nano Makefile
mohamed-alaa@mohamed-alaa-VMware-Virtual-Platform:~$ make
gcc -Wall -g process_creation.c -o process_creation
gcc -Wall -g file1.c file2.c -o output_program
gcc -Wall -g simple_program.c -o simple_program
mohamed-alaa@mohamed-alaa-VMware-Virtual-Platform:~$ 
```

```makefile
CC = gcc
CFLAGS = -Wall -g

all: process_creation output_program simple_program

process_creation: process_creation.c
        $(CC) $(CFLAGS) process_creation.c -o process_creation

output_program: file1.c file2.c
        $(CC) $(CFLAGS) file1.c file2.c -o output_program

simple_program: simple_program.c
        $(CC) $(CFLAGS) simple_program.c -o simple_program

clean:
        rm -f process_creation output_program simple_program
```

[Read 19 lines]

^G Help   ^O Write Out   ^W Where Is   ^K Cut   ^T Execute   ^C Location   M-U Undo
^X Exit   ^R Read File   ^\ Replace   ^U Paste   ^J Justify   ^/ Go To Line M-E Redo

```
mohamed-alaa@mohamed-alaa-VMware-Virtual-Platform:~$ nano Makefile
mohamed-alaa@mohamed-alaa-VMware-Virtual-Platform:~$ sleep 300 &
[1] 9331
mohamed-alaa@mohamed-alaa-VMware-Virtual-Platform:~$ jobs
[1]+  Running                 sleep 300 &
mohamed-alaa@mohamed-alaa-VMware-Virtual-Platform:~$
```